

DSC-P32

Cyber-shot® Digital Still Camera



FEATURES

1/2.7" 3.2 Megapixel Effective Super HAD™ CCD



Super HAD (Hole Accumulation Diode) CCD's provide excellent image quality by allowing more light to pass to each pixel, increasing sensitivity and reducing noise.

0 - 3.2 Smart Zoom (at VGA Size)



Smart Zoom intelligently uses the full CCD to let you zoom into the portion of interest by cropping the image size—thus avoiding the image degradation of Digital Zooms.

3 Area Multi-Point Auto Focus



Evaluating 3 separate focus areas of the frame, Multi-Point AF can intelligently focus on the subject and avoid mistakenly focusing on the background.

AF (Auto Focus) Illuminator



Briefly illuminating the subject in low- or no-light conditions, AF Illuminator helps establish a positive focus lock.

Multi-Pattern Measuring



Independently light-metering 49 points of the frame, Multi-Pattern Measuring establishes the optimum exposure value, even in scenes where pronounced highlight and shadow are not centered in the frame.

Auto Daylight Synchro Fill Flash

If the Multi-Pattern Measuring system determines the subject is backlit or in shadow, fill flash automatically fires to provide optimum exposure.

Pre-Flash Metering

With a momentary pre-flash, the camera illuminates the subject and sets exposure through the lens for accurate flash metering. Adjustable flash level and red-eye reduction insure great flash shots.

Memory Stick® Media



Digital. Powerful. Transportable.™ Memory Stick media is compact, portable and rugged—connecting a variety of hardware and software applications.

Scene Selection Mode



With 5 Scene Modes, camera parameters can be matched to the shooting conditions. Twilight, Twilight Portrait, Landscape, Snow and Beach presets make it easy to optimize difficult shooting environments.

Slow Shutter Noise Reduction



During long Twilight mode exposures, Slow Shutter NR captures the scene, and then the CCD noise pattern with a dark frame exposure. By subtracting the two, even long exposures can be clear.

14-Bit DXP A/D Conversion



Sony's 14-bit Digital EXtended Processor captures the range between highlight and shadow with up to 16,384 values, for extended dynamic contrast and detail.

1.6" LCD Monitor

Monitors the scene for accurate framing. 61K pixel and anti-glare coating help provide excellent viewing and image playback clarity, even outdoors.

Auto Bright Monitoring

To help framing in low- or no-light situations, CCD gain is briefly increased to provide an extra bright display on the LCD viewfinder just before exposure.

Optical Viewfinder

Provides accurate framing at eye level, great for added stability and following fast moving subjects.

QXGA (2048 x 1536) Image Size

With its high resolution CCD, the DSC-P32 captures in 4 different image sizes, with selectable Fine or Standard JPEG compression.

Multi-Burst Mode



Captures 16 320x240 frames as part of a single 1280x960 image which plays back sequentially in the camera. Selectable 1/7.5, 1/15, 1/30 second frame intervals provide convenient motion analysis.

MPEG Movie VX Mode



Captures VGA (640x480) high frame rate (16 frames per second) audio/video clips with length limited only by the capacity of the media. Video Mail mode captures smaller file sizes suitable for email.

Clip Motion Mode



Capture up to 10 images and convert them to an animated GIF with 2 fps playback. By varying the interval between shots you can create animations not possible with other motion capture modes.

Playback Zoom, Trim and Resize



During playback, magnify any portion of the image up to 5X and trim to the area of your interest. Then, save the new image as a new file in any of the image sizes available from the menu.

Rechargeable NiMH Batteries



Long-lasting power is provided by 2100 mAh rated Nickel Metal Hydride (NiMH) Stamina® batteries with BC-CS2 external charger. Or, choose "AA" Alkaline cells or optional AC adaptor.

ADDITIONAL FEATURES

2 Shot Burst Mode	Video Output (PAL/NTSC Selectable)
Clear Color/Clear Luminance NR	4 Mode In-Camera Picture Effects
MPEG1 Cue, Review and Divide	5 Step Manual Preset Focus
3:2 Aspect Ratio Mode	

SPECIFICATIONS

Imaging Device: 1/2.7" 3.2 Megapixel Effective Super HAD™ CCD

Recording Media: Memory Stick® Media, Memory Stick PRO™ Media

Zoom: Fixed Focal Length 3.2X Smart Zoom (at VGA size)

Filter Diameter: N/A

Focal Length: 5mm

35mm Equivalent: 33mm

Aperture: f2.8 - 5.6

Focus: 3 Area Multi-Point AF, 5 Step Manual Preset

Minimum Focus Distance: 3.9" (10 cm)

Macro Mode: Auto

Shutter Speed: Auto, 1/30 – 1/1000 sec, Twilight 2 sec – 1/1000

Manual Exposure: ±2.0 EV, 1/3 EV Steps

Color LCD: 1.6" 61K Pixels Low Temperature Polysilicon TFT

Flash Modes: Auto/Forced On/Forced Off/Slow Synchro

Red-Eye Reduction: On/Off

Flash Effective Range: 1.6 – 12.5 ft (0.5 – 3.8m)

White Balance: Auto, Daylight, Cloudy, Fluorescent, Incandescent

Picture Effects: Black & White, Solarize, Sepia, Negative Art

ISO: Auto, 100, 200, 400

Scene Modes: Twilight, Twilight Portrait, Landscape, Beach, Snow

Self Timer: Yes, 10 Seconds

Video Out: Yes NTSC/PAL Selectable

Still Image Modes: JPEG (Fine/Std.), Burst, Email, Voice Memo

MPEG Movie Modes: MPEG VX (640x480, 16fps, with audio)
MPEG Video Mail (160x112, 8 fps with audio)

Clip Motion: Normal (160x120), Mobile (80x72)

Microphone/Speaker: Yes/Yes

USB Terminal: Yes, Supports USB 2.0

Memory Stick PRO™ Media Compatibility: Tested to support up to 1GB media capacity; does not support high speed transfer function; does not support Access Control security function

Battery Type/Capacity: NiMH AA, 2100 mAh rated

Supplied Software: Pixela™ Image Mixer Software for Sony v1.5, USB Driver SPVD-008

OS Compatibility: Microsoft® Windows® 98/98SE/Me/2000 Professional/XP Home/Pro; Macintosh® OS 8.5.1/8.6/9.0/9.1/9.2

Supplied Accessories: NH-AA-DA Rechargeable NiMH Batteries, BC-CS2 NiMH Battery Charger, A/V and USB Cables, Wrist Strap, MSA-16A 16MB Memory Stick® Media, Software CD-ROM

Dimensions (W/H/D): 4" x 2 1/4" x 1 5/16" (101 x 57.7 x 32.6mm)

Weight: 7.9 oz (217g) (w/Battery, Memory Stick® Media, Strap)



JPEG Still Image Mode

Fine/Standard Picture Quality

Memory Stick® Media¹	2048x1536 (3MP)	2048x1360 (3:2)	1632x1224 (2MP)	1280x960 (1MP)	640x480 (VGA)
16MB	10/18	10/18	16/30	24/46	97/243
32MB	20/37	20/37	33/61	50/93	196/491
64MB	41/74	41/74	66/123	101/187	394/985
128MB	82/149	82/149	133/246	202/376	790/1,975
Memory Stick PRO™ Media¹					
256MB	148/264	148/264	238/446	357/649	1,428/3,571
512MB	302/537	302/537	484/907	726/1,320	2,904/7,261
1GB	617/1,097	617/1,097	988/1,852	1,482/2,694	5,928/14,821

MOTION CAPTURE MODES

Maximum Recording Time (minutes/seconds)

Memory Stick® Media	MPEG Movie		Clip Motion (Images)		16 Frame Multi-Burst
	640x480 (VX Mode)	160x112 (Mail Mode)	160x112 (Normal-10f)	80x72 (Mobile-2f)	1280x960 (Fine/Std)
16MB	42sec	11m 13s	88	486	24/46
32MB	87sec	22m 43s	178	982	50/93
64MB	176sec	45m 40s	358	1,971	101/187
128MB	5m 54s	91m 34s	718	3,951	202/376
Memory Stick PRO™ Media					
256MB	10m 41s	165m 35s	1,190	3,571	357/649
512MB	21m 44s	336m 43s	2,420	7,261	726/1,320
1GB	44m 23s	687m 19s	4,940	14,821	1,482/2,694

BATTERY LIFE (Approx)

Battery Fully Charged	Recording-# Shots* LCD On/Off	Recording-Minutes* LCD On/Off	Viewing** No. Images/Batt. Life
NH-AA-DA	320/540	160min/270min	6000/300min

*Under Average Conditions:

Normal Mode (JPEG), Picture quality Fine; Shooting each image at 30 second intervals; Flash operated every other shot; Power is turned on/off after every 10 shots; Actual results may vary on conditions of use.

**Viewing single images consecutively, at about 3 second interval.

OPTIONAL ACCESSORIES

ACC-3NP Starter Kit (AC-LS5, LCS-CP2, NH-AA-2DA, BC-CSQ)
NH-AA-2DA / 4DA Rechargeable NiMH Batteries (2pk/4pk)
AC-LS5 AC Power Supply
LCS-PEA Soft Carrying Case
LCS-CP2 General Carrying Case
LCS-CSB Sport Style Carrying Case
HVL-FSL1A External Slave Flash w/Bracket
MSA-32A, MSA-64A, MSA-128A Memory Stick® media
MSA-128S2 Memory Stick® Media with Select Function (256MB total)

MSX-256, MSX-512, MSX-1G Memory Stick PRO™ Media
MSAC-HGA8 Memory Stick® Media Carrying Case
MSAC-US70 Memory Stick PRO™ Media USB Adaptor/Mouse
MSAC-US20 Memory Stick PRO™ Media USB Adaptor
MSAC-PC3 Memory Stick PRO™ Media PC Card Adaptor
VMC-14UMB Replacement USB Cable
VCT-MTK Travel Tripod
VCT-R640 Lightweight Tripod

©2003 Sony Electronics Inc.

Reproduction in whole or in part without written permission is prohibited. All rights reserved.

Sony, Cyber-shot, Digital, Powerful, Transportable, Memory Stick, Memory Stick PRO, the Memory Stick logo, Stamina, and Super HAD are trademarks of Sony. Microsoft and Windows are trademarks of Microsoft Corporation. Macintosh is a trademark of Apple Computer, Inc. All other trademarks are property of their respective owners. Features and specifications subject to change without notice. Non-metric weights and measures are approximate.

¹ Available storage capacity of Memory Stick and Memory Stick PRO media may vary. A portion of the memory is used for data management functions.

SONY

Sony Electronics Inc.
16765 West Bernardo Drive
San Diego, Ca 92127
www.sony.com/di